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TRANSMITTAL for FY 2003 (Large Entity)		Complete if Known				
		Application Number	10/088,205			
		Filing Date	July 16, 2002			
		First Named Inventor	Yasuhiko TAKEO et al.			
		Examiner Name	Linh M. Nguyen			
		Group Art Unit	2816			
Total Amount of Payment (\$)10	68	Attorney Docket Number	2469-111			

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2. CLAIMS '			(times number of properties	s)		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number	10/088,205	27/03
Filing Date	July 16, 2002	~//03
First Named Inventor	Yasuhiko TAKEO	$\cdot \mathcal{U}$
Group Art Unit	2816	m 76
Examiner Name	Linh M. Nguyen	
Attorney Docket Number	2469-111	

Title of the Invention: PHASE DETECTOR CIRCUIT

AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

In response to the Election/Restriction requirement mailed April 17, 2003, please amend the subject patent application as follows.

In the Claims:

Please add the following new claims 8-15.

8. A phase detector circuit that outputs a DC voltage signal associated with a phase difference between an input random NRZ signal and a second signal related to said input random NRZ signal, comprising:

a delay circuit for delaying said input random NRZ signal by an amount related to a period T of said input random NRZ signal and outputting a delayed signal; and

a combination of at least one multiplier circuit and a subtractor circuit, which combination performs a mathematical operation on said input random NRZ signal, said delayed signal, and said second signal to produce an output signal having a DC voltage component corresponding to said phase difference.

9. The phase detector circuit of claim 8, wherein said second signal is the same as said input random NRZ signal but differing in phase therefrom by an angle θ , and said delay circuit delays said input random NRZ signal by a value of T.

Of

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